



AIXM Data Management



Managed-AIS AIXM suite

Our Data Management system provides safe storage of high quality Aeronautical Information for all aeronautical data management and publishing purposes. Customers using the M-AIS AIXM suite include ISAVIA, THALES of France and UK NATS. We work with the data management teams in various States and supply AIXM Management software for the storage, management and serving of Aeronautical Obstacle and Facilities data with proven data integrity and quality. Our AIXM system provides an unparalleled range of features to meet our clients' requirements.

Web-based Data Management

The latest Version of Managed-AIS AIXM Database Client Software includes a unique new web-based interface for data entry and data management. The interface provides safeguards against entering data that is incorrectly formatted, orphan data (with no supporting entities) and data that does not conform to the AIXM business rules. For 2015 the software is being upgraded to AIXM 5.1.

Guided Search

The system employs a unique guided data entry system to ensure that static data is entered by the user in a logical manner so that users who are not AIXM Experts can find and edit the entities they need quickly and easily.

The screenshot displays the AIXM Database Management System web interface. The main window is titled "Aerodrome / Heliport - Version EPHK". It features a navigation menu on the left with categories like Administration, Static data management, Bulk data management, Document repository, Logout, Help, and About. The central area contains a form for data entry with fields for "Submit to plan" (ADEP-0015_OBS_IMPORT_TEST), "Valid from" (2006-02-09 00:00), and "Valid till". Below this are tabs for Admin, Traffic, Geo/Mag Var, Elev/Temp, and Misc. The "Misc" tab is active, showing a "Cyclic redundancy check" field with the value "0778F8F5" and a "Served city" field with the value "HELSINKI". A message indicates "CRC value is correct." Other fields include "Altimeter check location description", "Secondary power supply description", "Wind direction indicator description", "Landing direction indicator description", and "Remark". A "Remark" field contains the text "under the responsibility of ORG_AUTH_M FINLAND" with an "edit" button. At the bottom, there are buttons for "Cancel", "Apply", "View all versions", "Report", and "Help", along with a "Show Other Relations" button. The right sidebar shows a tree view of the database structure, including "Aerodromes and obstacles", "Aerodrome / Heliport", "Apron", "Ground service", "RWY", "TLOF", and "TWY". The bottom status bar shows "Done" and "Local intranet".



Data Storage

The system stores all data in a relational database with a structure derived directly from the EUROCONTROL standards. Our system is established as the main static data repository for entire states by clients around the world.

Data Integrity

Our database and software suite is fully compliant with the Eurocontrol AIXM professional toolset, ensuring full traceability and temporality. The data integrity verification within the system uses the latest CRC implementation as defined within AIXM. The AIXM Database suite includes full history of edits and timeline view of the data history for ICAO standards compliance.

User Management & Security

All access to user interface, data or tools is controlled according to configured user authorization and 3 distinct levels of security are incorporated into the system. Application users and their access rights are managed via the web interface, which allows the creation and the editing of user data along with the management and assignment of users roles.

Data Validation

The system ensures that all the data that is created, updated or deleted is validated according to the rules specified in the AIXM standard. Types of rules checked include:

- Data Formats
- Intra-table rules and dependencies
- Cross-table rules and inter-dependencies

Ease of Use

The focus of the system is that it should be easy to use and offer the user as much help as they need to achieve their goals. Features include:

- Simplified low level menus to ease initial navigation
- XML Tree View Menu for instant access to all AIXM
- Guided Search provides a logical progression through related search fields.
- Onscreen tool tips on each attribute (detailed AIXM knowledge is not required by users)
- AIXM Rules and Notes are provided in pop-up windows on each form

Modular System Functions

The upgrade modules that are available are:

- Planning Data Management
- Group Data Management
- Dataset Management
- AIXM Import/Export
- AIS Data Exchange Processor

See our AIXM Modules datasheet for more information.

